



## **FACT SHEET**

### **Knauf Insulation Proposed Air Permit Revision**

#### **PROPOSED ACTION**

- The U. S. Environmental Protection Agency (EPA) proposes to revise the Prevention of Significant Deterioration of Air Quality (PSD) permit issued to Knauf Insulation GmbH (formerly Knauf Fiberglass GmbH).
- Knauf manufactures fiberglass insulation and has been operating since 2002. The facility is located in Shasta Lake, California.
- The facility is made up of the following operations that are used to manufacture fiberglass insulation: (i) raw materials handling, (ii) molten glass production, (iii) glass fiber forming, (iv) curing, (v) cooling, and (vi) facing, cutting and packaging. The glass fiber forming, curing and cooling operations make up the fiberglass manufacturing line.

#### **BACKGROUND**

- Knauf submitted an application in 2003 to EPA to revise its PSD permit. Although EPA determined Knauf's application to be administratively complete on August 15, 2003, Knauf submitted several application updates to EPA in September and December 2003, and in February, June and October 2004. In December 2005, Knauf submitted another application update requesting additional changes to its PSD permit.
- Knauf's application requested to (1) change the PSD requirements for particulate matter less than 10 microns (PM10) that applied to the glass melting furnace (Furnace Stack) and the fiberglass manufacturing line (Main Stack), (2) increase the air pollution limits, which were used to avoid PSD permitting, for nitrogen oxides (NOx) at the Main Stack; and (3) increase the glass production capacity at the facility from 195 to 225 tons of glass produced per day (tpd).
- The Shasta County Air Quality Management District issued Knauf's initial PSD permit in 2000. EPA is and has been the PSD permitting authority for Shasta County since the District's PSD delegation was withdrawn in 2003.
- Air pollution tests performed at Knauf in 2002-03 showed that Knauf's NOx emissions at the Main Stack were higher than its NOx limit. The tests also showed that Knauf's PM10 emissions at the Furnace Stack were slightly higher than its PSD limit. Therefore, EPA determined that Knauf was subject to PSD review for NOx at the Main Stack and re-reviewed the PSD requirements for PM10 at the Furnace Stack.

- After reviewing all of the information, EPA proposes the following revisions to the PSD air pollution requirements in Knauf's PSD permit:
  - change the Furnace Stack PM10 limits from 0.1 lb/hr to 0.67 lb/hr and 0.07 lb/ton of glass pulled;
  - change the Main Stack PM10 limits from 28.4 lb/hr and 3.50 lb/ton of glass pulled to 28.4 lb/hr and 3.03 lb/ton of glass pulled;
  - create PSD limits for NOx at the Main Stack of 16.5 lb/hr and 1.76 lb/ton of glass pulled; and
  - allow Knauf to increase glass production from 195 to 225 tpd.
- The proposed PSD permit revisions ensure that Knauf is using the best available control technology (BACT) and contains testing monitoring, recordkeeping and reporting requirements to ensure that the PSD air pollution requirements are being met on a continuous basis.

### **AIR QUALITY IMPACTS**

- The potential emission increases above the initial PSD permit will be 2.5 tpy for PM10 and 47.5 tpy for NOx
- The ambient air quality analysis for NOx shows that the proposed increase will not cause or contribute to a violation of the National Ambient Air Quality Standards or PSD increments. The maximum NOx impact is expected to be far below the NAAQS and PSD increment thresholds. For PM10, no analysis of air quality is required under the regulations since the increase is too small.

### **PUBLIC COMMENT PROCESS**

- The public comment period for the proposed revised PSD permit opened on January 31, 2006, which is the date in which the public notice was published in the Redding Record Searchlight. The public comment period ends March 28, 2006. A public information session and public hearing will be held on March 8, 2006 at the John Beaudet Senior Community Center at 1525 Median Avenue in Shasta Lake. The information session begins at 4 PM and ends at 6 PM. The public hearing starts at 7 PM.
- The proposed revised PSD permit and Ambient Air Quality Impact Analysis are available online at the EPA Region 9 website: <http://www.epa.gov/region09/air/permit/psd-permits-issued.html>
- The proposed revised PSD permit and Ambient Air Impact Report will also be available for public inspection at the Shasta Lake Gateway Library at 4150 Ashby Court in Shasta Lake, California and at the Shasta County Library at 1855 Shasta Street in Redding, California.
- Send comments to: Shaheerah Kelly, Air Division (AIR-3), EPA Region 9, 75 Hawthorne Street, San Francisco, CA 94105-3901. You may also send comments by fax (ATTN: Shaheerah Kelly) to (415) 947-3579 or by electronic mail to [knaufpermit@epa.gov](mailto:knaufpermit@epa.gov).
- EPA will consider all comments in making a final decision. Comments will be included in the administrative record and are available to the public. The administrative record for the permit is available for public inspection Monday through Friday at the EPA office from 9 AM until 4 PM. Public inspection of these documents must be arranged in advance by contacting Shaheerah Kelly at (415) 947-4156 or at [knaufpermit@epa.gov](mailto:knaufpermit@epa.gov).
- For further information, contact Shaheerah Kelly at the phone number or electronic mail address in this fact sheet.

*February 3, 2006*